

NEW SPECIES AND SUBSPECIES COLLECTED IN A MONTH IN GUATEMALA

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In the winter of 1912, my wife (Wilmatte P. Cockerell) had her first visit to the tropics, which was made possible by Dr. Edgar L. Hewett, who was in charge of the excavations at Quirigua, Guatemala. She was absent six weeks of which two were taken by the voyages back and forth, leaving a month for her work in Guatemala. I give here a list of the new species and subspecies (or varieties) which she found. It seems worth while to print it, as it is perhaps not equalled by any other similar record, and because it shows the extreme richness of Central America in interesting and hitherto unknown forms of life. The list may yet be increased, as various specimens placed in museums get worked up. A good collection of millipedes and centipedes was sent to be studied by a well-known authority, but it apparently got lost. In addition to the species listed, a consignment of cacti, sent to the New York Botanical Garden, included a new genus (or as some have it, subgenus) *Wilmattea* Britton and Rose, but the species was not new. The species are listed under the localities in which they were collected.

Quirigua

Protozoa: (Gregarinidæ) found in Arthropods brought home alive:

- Stenophora cockerellæ* Ellis
- Stenophora elongata* Ellis
- Stytocephalus ensiferus* Ellis
- Gregarina guatemalensis* Ellis
- Stephanophora crassa* Ellis

Mollusca:

- Thysanophora cockerellæ* Pilsbry
- Thysanophora cockerellæ minima* Pilsbry
- Agriolimax guatemalensis motaguensis* Ckll.

Orthoptera:

- Mayacris* (n. gen.) *bruneri* Ckll.

Diptera:

Teucholabis cockerellæ Alexander

Coleoptera:

Lybas cruentissimus Casey

Tachymenis ocellaris Casey

Ichneumonidæ:

Polycyrtus cockerellæ Viereck

Crypturopsis microgaster Viereck

Eiphosoma motaguense Ckll.

Wasps:

Microbembex tarsalis Rohwer

Notoglossa pyrura Rohwer

Rhopalum opacum Rohwer

Bees:

Melipona solani Ckll.

Trigona zieglerei mayarum Ckll.

Trigona jatiformis Ckll.

Trigona argyrea Ckll.

Trigona zexmenia Ckll.

Ceratina wilmattæ Ckll.

Ceratina amabilis rhodochrysea Ckll.

Ptiloglossa mayarum Ckll.

Colletes motaguensis Ckll.

Megachile zexmenia Ckll.

Megachile aurantipennis Ckll.

Tetrapedia mayarum Ckll.

Augochlora gemmella Ckll.

Augochlora quiriguensis Ckll.

Augochlora quiriguensis sidæfolia Ckll.

Halictus hewetti Ckll.

Guatemala City

Diptera:

Chironomus guatemaltecus Ckll.

Ichneumonidæ:

Callicryptus magnificus Viereck

Chalcididæ:

Eustypiura rodriguezii Ckll.

Wasp:

Pedinaspis margaritella Rohwer

Bees:

- Bombus neotropicus* Frison
Psithyrus guatemalensis Ckll.
Xylocopa wilmattæ Ckll.
Agapostemon proscriptus Ckll.
Dialictus onustulus Ckll.

Amatitlan

Wasps:

- Tachysphex cockerellæ* Rohwer
Nysson guatemalensis Rohwer

Bees:

- Augochlare amatitlana* Ckll.
Cænohalictus wilmattæ Ckll.
Halictus adustipennis Ckll.

Antigua

Beetle:

- Leptinotarsa undecimlineata guatemalensis* Ckll.

Wasp:

- Stictia guatemalensis* Rohwer

Bees:

- Ceratina quinque maculata* Ckll.
Colletes antiguensis Ckll.
Bombus wilmattæ Ckll.
Anthophora usticauda Ckll.

Gualan

Plants:

- Phyllocarpus septentrionalis* Smith (a large tree, now cultivated in Florida)
Senegalia cockerellæ Britton and Rose (an *Acacia*)

Diptera:

- Eucoördylidexia* (n. gen.) *ategulata* Townsend
Apinocryptera (n. gen.) *signata* Townsend

Wasps:

- Arachnophroctonus cockerellæ* Rohwer
Silaon iresinides Rohwer
Notogonidea sternalis Rohwer
Cerceris iresinoides Rohwer

Bees:

Xylocopa wilmattæ gualanensis Ckll.

Xylocopa fimbriata motaguensis Ckll.

Agapostemon nasutus gualanicus Ckll.

Ceratina regalis Ckll.

Ceratina xanthostoma Ckll.

Ceratina xanthostoma rufipennis Ckll.

Dianthidium gualanense Ckll.

Perdita tropicalis Ckll. (the southernmost member of this large genus)

Prosopis gualanica Ckll.

Prosopis quadratifera Ckll.

Mesoplia azurea guatemalensis Ckll.

Centris inermis gualanensis Ckll.

Cælixys sanguinosus Ckll.

Megachile gualanensis Ckll.

Melissodes tepaneca aschenborniana Ckll.

Exomalopsis callura Ckll.

The total number is 78. Our interest in this region is just now revived because on the invitation of Wilson Popenoe we are to spend some months next winter on the staff of the Escuela Agrícola Panamericana, near Tegucigalpa, Honduras, for the purpose of studying the insect fauna. We anticipate many interesting discoveries. The insects of Honduras are apparently little known. Thus in R. E. Blackwelder's Check-list of the Coleopterous Insects of Mexico, Central America, The West Indies and South America many beetles are recorded from Guatemala but hardly any from Honduras. Thus in the large family Coccinellidæ only seven (*Hippodamia convergens* Guér., *Cycloneda hondurasica* Casey, *Azya luteipes* Muls., *Epilachna borealis* Fabr., *E. defecta* Muls., *Hyperaspis sexverrucata* Fabr., *Brachyacantha bistrripustulata* Fabr.), are listed from Honduras. In the Erotylidæ (generally conspicuous in the Central American fauna) only two (*Ægithus rhombifer* Casey, *Erotylus involutus* Kuhnt.).